

**IN THE ABSTRACT**

In a process for cutting sections from a probe for microscopic analysis, an ultramicrotome device is used having a blade with a cutting edge, the cutting edge extending at least approximately in a first direction. The process includes the steps of: vibrating the ~~[[said]]~~ blade in the first direction; and moving the blade relative to the probe to be cut in a second direction, the second direction being perpendicular to the first direction. This eliminates, or at least strongly reduces, compression of the cut sections.